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	CENTRAL INTECLIGE INFORMATION			LIZAD.
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OUNTRY	Germany (Russian Zone)	ECURITY INFORMATION	DATE DISTR. 21	Juli 1951
UBJECT	Development Orders for Laboratorie in the Russian Zone of Germany	8	NO. OF PAGES 5	
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		THO 10 119171	ULIATED INFORMATION	
		THIS IS UNEVA	ILUATED INFORMATION	25X1
	The following are Development Order Germany:	rs for Laboratoria	es in the Soviet Zon	e of
	Lature of research	Type of work ordered	Allocation for 1951 in east-	Date of delivery
	For synt	explanation of cols see note bold	marks W.	uddian-base assembly and an addition (graph
	1. ZLE Erfurt (Sentrallaboratorium fuer ar facngerrochren) Sentral Laboratory for Receiver Tubes. Fanager: Dr. Heinze			25X1
	Further development of the following types of amplifiers: Output tube with a rated output of 2.0 % hexade with versmall nonlinear and modulation	F, U, M	150	March 1991
	distortion; super control tube with large range of control, or is eye one limear luminous in diction; diodo with highly		SECURITY INFORMATION	
	imputated, rediation-impted cathodo. *	•		\mathcal{U}_{α}
	Further development of expli- fier tubes as pipeless tubes	F,U, 11	200	April 1951
	Devolopment of receiver tubes with flat cathode an plain electrodes in order to lower production costs.	F, U, K	100	April 1951
	Development of miniature battery tubes requiring little heating current.		1 3 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	April 1951
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CENTRAL ENTELLIGENCE AGENCY -2-

•	Development of secondary emission cathodes for receiver tubes	w,	ប	9	ľå			70)	,	April	1951	
	Investigation of the emission of coated and thorium cathodes	W,	U	•				3	0		Marol	1951	
1	Improvement of getter materials (Getterstoffe) to facilitate production and to obtain better getter (sic) effect	W ₉	, U	ووأ	P.			3	0		April	L 1 951	•
	Research in improved alloy for seal pins to be used as rigid contact pins	Ws	, L	i i				3	0		Marcl	n 1951	•
	Replacement of copper-to-glass seals by Fernico material for soft and hard glass and development of soldering procedures for the attachment of metal rings to the body of the tube	•	, Ţ	e	M			14	0		Apri	1 1951	L
	Further development of the VEL- 51 tube and of 26 various types of the 170, 2- and U-series. **							30	XO				
	Erfurt Radio Plant												
	Further development of suitable methods for the manufacture of transmitter tubes. *	U							60		∧pri.	1 195	L
	Development of RS-391 type transmitter tubes	ប	,M					2	28		Apri	1 195.	1
	Various high- and low-frequency measuring instruments							1.	70		Apri	1 195	1.
ZLSS Berlin-Koepenick (ReT Lentrallaboratorium fuer Signal- und Sonderanlagen) Gentral Laboratory for Signal and Special Installations.													
	Development of a commercial myra-metric (sic) wave receiver operating on wave length from 2,500 to 20,000 meters. *	F	,	U,	, IJ	·			10		Janu	a r y 1	951
	Development of a multiple unit steerable antenna (NUCA) for phase shifting and simultaneous reception with several receivers designed to improve reception for commercial operations.		9	U,	, M				30		•	1 195	1
1	Development of a goniometer DF set	F	٠,	U,	, M				45			ı ı 195	1
	Development of a 100-KW transmitter for medium maves	F	,	U	, L			7	'GO		Apr:	il 195	1 .

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CENTRAL INTELLIGENCE AGENCY
-3-

Development of a 20-KW transmitter for medium waves	F,	U,	T.		150	March 1951
Development of a radio station to operate from Ruegen for fishing craft	Γ,	υ,	partly I		140	April 1951
Development of a common wave system for transmitters operat- ing on medium wave	F,	U,	pa rtl y L	,	50	April 1951
Development of a control board for radio transmitters	F,	U,	partly I	د	80	March 1951
Development of a 50-KW trans- mitter operating on short waves	F,	u,	partly 1		500	March 1951
Development of a scries of types of HF generators for warming and hardening pur- poses.	F,	Ųg	partly I	1	?	?
Development of a transmitting and receiving station with automatic control of the dis- tress wave employed for shipping		U,	M	-	47	February 1951
Development of a 2-KW short- wave transmitter operating on a band from 13 to 100 meters employed for shipping	Fg	U,	L		170	April 1951
Development of a distress signal transmitter to be installed in ships and of a distress signal receiver	F,	U,	PS Au		но	January 1951
Development of an echograph for depth soundings	$\mathbb{F}_{oldsymbol{s}}$	U,	M		60	April 1951
Development of a speed indi- cator for ships incorporating a Ferraris motor integrating the speed indicating and register- ing the distance covered	F,	U,	12		7	January 1951
Development of a maritime distress signal transmitter. ***					150 .	
Development of radio monitor- ing desks					110	
Development of axle counters for use with railroads					70	
EMKO (RFT Entwicklungs- und Kons- Development and Designs Bureau a strasse in Leipzig. Acting mana	t 7	Le	lscher-		(fnu).	
Theoretical and experimental investigation of a modulating method requiring a smaller band width and working on the principle of a combined frequency and amplitude modulation. *	Ŋ				30	April 1951

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CENTRAL INTELLIGENCE AGENCY -4-

		*	
Development of an ultra-short wave control transmitter and receiver operating on a fre- quency range from 15 to 105 MHz; output 1 W, sensitivity 10x10-EV	F, U, N	20	^a pril 1951
Development of a single side ban receiving station for commer- cial broadcasting	d	120	February 1951
Development of an ultra-short wave transmitter and receiver for mobile radio stations		125	February 1951
Investigation of modulators for carrier frequency sets	W, II	30	April 1951
Development of a teleprinter for twin single sideband transmitters and receivers	F, U, K	80	April 1951
Development of a single side- band receiver **		80	
Development of an ultra-short wave transmitter and receiver		25	
Radio receivers for fishing craft		13	
Electronic drive for machine tools		13	
Portable carrier frequency telephone equipment of type Tfc 3 and 4		100	
Channel carrier frequency tele- phone equipment		16	
Industrial electronics		50	
Condenser Plant in Gera			
Further development of electrolytic condensers with roughened electrodes *	F, U, H	30	April 1951
Development of new HF iron cores by pressing ferrite powder. This work is undertaken in cooperation with HESCHO KAHLA, Ceramic Products Firm at Hermsdorf	F, U, H	40	April 1951
Carl Zeiss Flant in Jena.			
Construction of an electron		67.0	

6.

Construction of an electron misroscope operating on the electrostatic principle **

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Note:

5.

Explanation of symboles.

F - Development up to production stage

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SECRET-	

U - Delivery of construction records and specific directives for production

L - Production of a laboratory prototype

M - Production of an experimental type

W - Scientific report	•	
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